

System Facts

Product Overview

Relays

- H 4116, H 4133, H 4134, H 4135A, H 4136

Ex devices

- Ex switching amplifier: H 4007, H 4011, H 4012
- Ex HART devices: H 6200A analog repeater power supply, H 6210 HART multiplexer



HIMA relays H 4116, H 4133, H 4134, H 4135A, H 4136

Certificates/Standards

- ANSI/ISA S84.00.01:2004
- IEC 61508, Part 1-7:2000
- IEC 61511:2004
- EN ISO 13849-1: 2008 Cat. 4/PL e
- EN 60664-1:2003
- EN 62061:2005
- EN 50178:1997
- EN 50156-1:2004
- EN 12067-2:2004
- EN 298:2003
- EN 230:2005
- EN 61131-2:2007
- EN 61000-6-2:2000, EN 61000-6-4:2002
- IEC 61326-3-1:2008
- NFPA 85: 2007, NFPA 86:2007, NFPA 72:2007



HIMA Ex devices H 4007, H 4011, H 4012, H 6200, H 6210

Advantages

- Safety up to SIL 2, SIL 3 and SIL 4, depending on the product
- Supports ignition protection type (Ex)i
- Reduced lifecycle costs thanks to minimised plant downtime
- Easy diagnosis, e.g., through assessment of the LEDs
- Reduced maintenance effort
- Broad proof test intervals: 25 years for SIL 2, 10 years for SIL 3

DIN Rail Devices

**Safe HIMA DIN rail devices:
Equally suitable for HIMA safety controllers and
third-party systems**

HIMA DIN rail devices extend HIMA's product portfolio to include safety-related relays and safe functions for explosion protection isolation. Due to their quality and efficiency advantages, they are used in conjunction with HIMA Planar, HIMatrix®, HIQuad and HIMax® controllers and, increasingly, by other manufacturers for their own systems.



SAFETY
NONSTOP

SystemFacts | DIN Rail Devices

Relays

H 4116	DIN rail mounting, 24 VDC, switching voltage 250 VAC/127 VDC, safe isolation/ SIL 2
H 4133	Switching amplifier , DIN rail mounting, 24 VDC, switching voltage 250 VAC
H 4134	DIN rail mounting, 230 VDC, switching voltage 250 VAC/ SIL 2
H 4135A	DIN rail mounting, 24 VDC, switching voltage 250 VAC/127 VDC, safe isolation; thanks to external test board, the relay need not be removed for testing the secondary contact pairs/ SIL 3
H 4136	DIN rail mounting, 48 VDC, switching voltage 250 VAC/127 VDC, safe isolation/ SIL 3



Ex devices

Ex switching amplifier

H 4007	DIN rail mounting, switching amplifier (Ex)i for control of intrinsically safe valves and supply of intrinsically safe transmitters, output 24 VDC, ATEX/ SIL 3, SIL 4, [Ex ia]
H 4011	DIN rail mounting, switching amplifier (Ex)i, safety-related, with electrical isolation, short-circuit monitoring, for safety-tested proximity switches/ SIL 3, [Ex ia]
H 4012	DIN rail mounting, switching amplifier (Ex)i, safety-related, with electrical isolation, open-circuit and short-circuit monitoring, for safety-tested proximity switches/ SIL 3, [Ex ia]



Ex HART devices

H 6200A	Safety-related, intrinsically safe analog repeater power supply with integrated extraction of HART data. Converts analog Ex input signals into two inde- pendent standard analog output signals (Advantage: no need for additional repeater power supply thanks to output redundancy) and for simultaneous extraction of HART signals/ SIL 3, [Ex ia]
H 6210	Safety-related HART multiplexer with HART filter functions for 8 analog Ex repeater power supplies (H 6200A). Used to collect and forward data to the HART server via integrated RS485 interfaces



SIL 3, ATEX and HART, 3-in-1: Proven HIMA technology

HIMA was the first manufacturer worldwide to offer a SIL 3/ATEX-certified Ex analog repeater power supply with HART function and a SIL 3/ATEX-certified HART multiplexer. The H 6210A Ex repeater power supply features a HART command filter of SIL 2. The filter function forwards read-commands only to the field devices while blocking all common/universal write commands. HART communications can be completely suppressed for SIL 3 applications while being enabled for configuration (e.g., start-up). Systems equipped with a HART OPC client or with an interface for third-party communications/gateway DTM are supported (e.g., Pactware, E&H/Metso Fieldcare, Honeywell FDM). A FDT group certified communication and gateway DTM can be ordered from HIMA separately.

